

## CLAIMS

1. A thermal recording sheet comprising a square and transparent film, said film being provided with a thermal recording layer containing leuco dye and a coloring agent and a protective layer mainly containing water-based resin on one surface thereof, and having four corner portions, including at least one marked corner portion, at the four corners thereof, said corner portions respectively having an edge with a curvature radius of no less than 5 mm, said marked corner portion having substantially a maximum curvature radius or a minimum curvature radius.
2. The thermal recording sheet according to Claim 1, wherein a pair of said marked corner portions are arranged oppositely to each other on one diagonal line of said thermal recording sheet.
3. The thermal recording sheet according to Claim 1 or 2, wherein all of said corner portions, except said marked corner portion having the edge with the maximum curvature radius ( $R_{\max}$ ), have an edge with approximately the same curvature radius ( $R$ ), and the ratio ( $R_{\max}/R$ ) of said maximum curvature radius ( $R_{\max}$ ) to said curvature radius ( $R$ ) is no less than 2.
4. The thermal recording sheet according to any one of Claims 1 to 3, wherein said edge with the maximum curvature radius consists of an arc of less than a  $1/4$  circle and each of the remaining edges consists of an arc of a  $1/4$  circle.
5. The thermal recording sheet according to any one of Claims 1 to 4,

wherein each of the edges of said corner portions substantially smoothly connects to linear edges of the main body portion of said thermal recording sheet.

6. The thermal recording sheet according to any one of Claims 1 to 5, further comprising a note indication for differentiating front and back faces of said thermal recording sheet according to a position of said marked corner portion.

7. A thermal recording sheet pack, comprising:

a bundle of thermal recording sheets consisting of a stack of thermal recording sheets according to any one of Claims 1 to 6;

a protective cover sheet covering substantially the whole of the lower surface of said bundle of thermal recording sheets, said protective cover sheet comprising:

a protective cover main body having approximately the same form as each of said thermal recording sheets of said bundle of thermal recording sheets and contacting with the lower surface of said bundle of thermal recording sheets;

a rear contact portion provided in standing position at one edge of said protective cover main body so as to contact with a rear end face of said bundle of thermal recording sheets in a sheet feed direction; and

a pair of side contact portions provided in standing position at a pair of edges perpendicular to said one edge of said protective cover main body so as to contact with both sides of said bundle of thermal recording sheets,

said thermal recording sheet pack further comprising:

a thin membrane band for holding said bundle of thermal recording sheets between said side contact portions of said protective cover sheet, said thin membrane band crossing over between said pair of side contact portions when said bundle of

thermal recording sheets are placed on said protective cover main body, and contacting with at least outer side surfaces of said pair of side contact portions, and being pressed against a portion of the upper surface of said bundle of thermal recording sheets so as to hold said bundle; and

an annular thin membrane for holding the bundle of thermal recording sheets in a sheet feed direction, said annular thin membrane being placed so as to surround the outside of said protective cover sheet and said bundle of thermal recording sheets in said sheet feed direction when said bundle of thermal recording sheets are placed on said protective cover main body, and contacting with at least the outer sides of said rear contact portion, and being pressed against front end face of said bundle of thermal recording sheets located oppositely to said rear contact portion, as well as at least a portion on the upper surface of said bundle of thermal recording sheets.

8. The thermal recording sheet pack according to Claim 7, wherein the height of a portion of said side contact portions of said protective cover sheet, said portion being covered with at least said thin membrane band, as well as the height of a portion of said rear contact portion of said protective cover sheet, said portion being covered with at least said annular thin membrane, are respectively smaller than the thickness of said bundle of thermal recording sheets.

9. The thermal recording sheet pack according to Claim 7 or 8, wherein two ends of said thin membrane band are respectively joined to the corresponding side contact portions, said annular thin membrane is placed on the upper side of said thin membrane band, and a portion of said annular thin membrane is formed to be easily cut.

10. The thermal recording sheet pack according to any one of Claims 7 to 9, wherein said protective cover sheet is formed of a plastic resin and said thin membrane band and said annular thin membrane are formed of a film, respectively.